

### **REMARKS**

Applicants have enclosed a petition requesting a three month extension of time for responding to the Office Action mailed March 14, 2006, thereby extending the period for response to September 14, 2006. Applicants respectfully request this petition be granted.

In the Office Action, the claims are rejected under 35 USC 102(b), 35 USC 102(e), and/or 35 USC 103(a) as being unpatentable over USP 5548022 (Ito et al.) and/or USP 6569533 (Uchida et al.). In addition, the claims are rejected under 35 USC 112 as being indefinite.

Applicants respectfully request amendment to the claims as described herein. Applicants have amended the claims to correct typographical errors (mis-spelling of "polyisocyanate"), to clarify the mixture as being a polyurethane prepolymer produced from the reaction of an excess of a polyisocyanate and a molecule having hydrogen active moieties (basis for this amendment is at p. 3 lines 13-16 and p. 4 lines 1-4), to clarify that the chain extender and the surfactant are each optional, and finally deleting claim 12. The rejections under 35 USC 112 are thus traversed.

Claim 1, as now amended, is limited to using bis(isocyanatomethyl)cyclohexane compound as the polyisocyanate. New claim 16 is limited to using polyols, but not diols, as the molecule having hydrogen active moieties, wherein the polyol is an aliphatic or aromatic polyol selected from a polyester, a polyether, polylactone, polyolefin, polycarbonate or a blend thereof. New claim 17 is not limited as to the molecule having hydrogen active moieties, but is limited by the percent solids in the dispersion and the mean particle size of the solid (basis for these limitations can be found at p. 10, lines 20-22 and in original claim 9). New claims 18 and 19 are supported in the specification at p. 12, line 22-24 and p. 12, lines 30-31, respectively.

By these claim amendments, Applicants respectfully traverse the rejection over Uchida et al. Uchida requires the use of diols in their dispersion, while only permissively allowing for additional use of polyols (see col. 4, lines 5-46). Applicants' claim 1 requires only one specific polyol, while claim 16 requires specific polyols (none of which are recited in Uchida et al.). As for claim 17, Uchida et al. does not discuss or disclose anything about percent solids or particle size. Applicants have discussed the importance of particle size,

especially for preparing storage stable dispersions (p. 10, lines 18-24). Nor does Uchida et al. disclose use of tertiary amines, organometallic compounds in their dispersions, as do Applicants new claims 18 and 19.

Ito et al. disclose the use xylylene diisocyanate (XDI) and hydrogenated XDI as a polyfunctional isocyanate (see col. 3, line 61), but Ito et al. fail to teach or even suggest use of at least 5% of trans-1,4-bis(isocyanatomethyl)cyclohexane. Hydrogenated XDI does not inherently achieve a minimum of 5% trans structure, as Applicants claims require. Further Ito et al. neither teaches nor suggests specific polyols (instant claim 16), or solids content or particle size ranges. Thus, Applicants respectfully traverse the rejection of the claims over Ito et al.

In view of the above amendments, applicant believes the pending application is in condition for allowance.

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Respectfully submitted,

By

  
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